

How to install ILC-C++ Software

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DESY

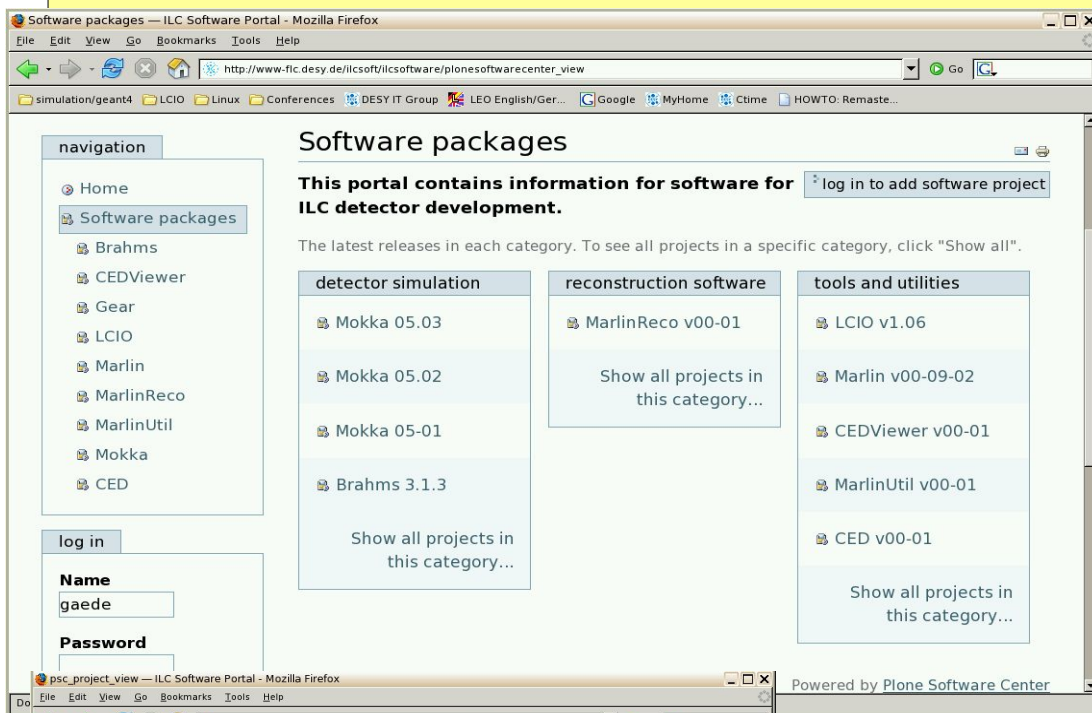
ILC Software Workshop
Cambridge, April 4-6, 2006

general remarks

- ILC software is not commercial software for the mass market but scientific expert software that needs some willingness to understand how it is build, installed and run in a meaningful way
- all tools are documented with either or all of:
 - README files in source distribution
 - dedicated manuals
 - API documentation
- starting point: <http://ilcsoft.desy.de>
- some basic knowledge of how software is built helps
 - gcc, gmake, ant (javac)...
 - basic knowledge of how to set environment variables

ILC software portal

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Software packages — ILC Software Portal - Mozilla Firefox

http://www.flc.desy.de/ilcsoft/ilcsoftware/plonesoftwarecenter_view

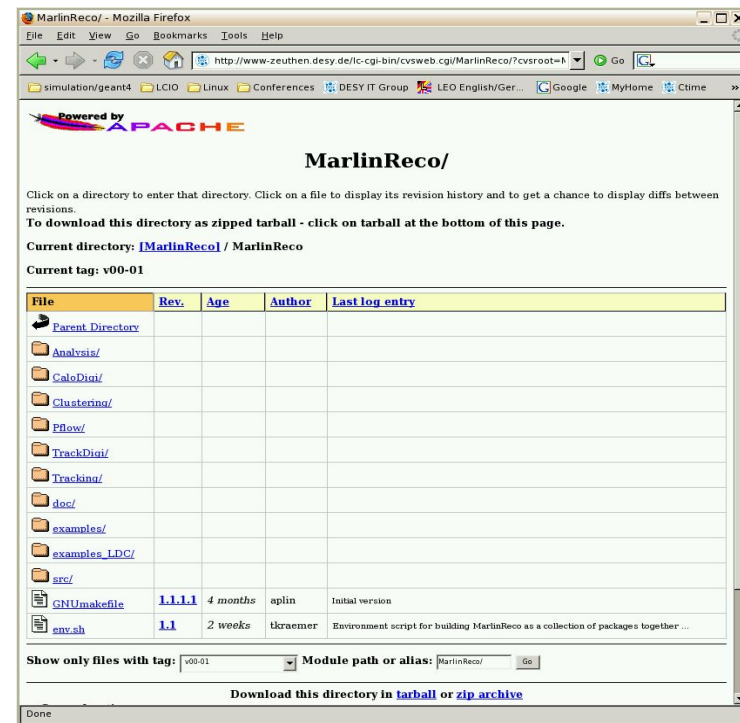
Software packages

This portal contains information for software for ILC detector development. [log in to add software project](#)

The latest releases in each category. To see all projects in a specific category, click "Show all".

detector simulation	reconstruction software	tools and utilities
Mokka 05.03	MarlinReco v00-01	LCIO v1.06
Mokka 05.02	Show all projects in this category...	Marlin v00-09-02
Mokka 05-01		CEDViewer v00-01
Brahms 3.1.3		MarlinUtil v00-01
Show all projects in this category...		CED v00-01
		Show all projects in this category...

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MarlinReco/ - Mozilla Firefox

http://www.zeuthen.desy.de/ilc-cgi-bin/cvsweb.cgi/MarlinReco/?cvsroot=lc

MarlinReco/

Click on a directory to enter that directory. Click on a file to display its revision history and to get a chance to display diffs between revisions.

To download this directory as zipped tarball - click on tarball at the bottom of this page.

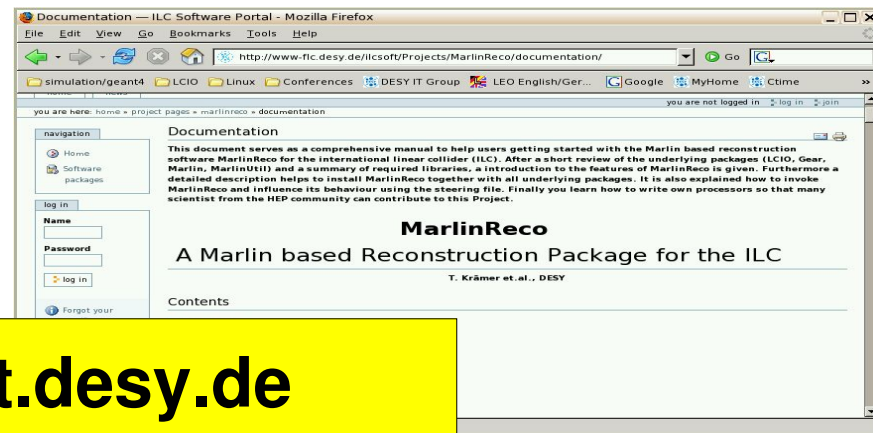
Current directory: [MarlinReco/](#) / MarlinReco

Current tag: v00-01

File	Rev.	Age	Author	Last log entry
Parent Directory				
Analysis/				
CaloDist/				
Clustering/				
Pflow/				
TrackDist/				
Tracking/				
doc/				
examples/				
examples_LDC/				
src/				
GNUmakefile	1.1.1.1	4 months	aplin	Initial version
env.sh	1.1	2 weeks	ukraemer	Environment script for building MarlinReco as a collection of packages together ...

Show only files with tag: v00-01 Module path or alias: [MarlinReco/](#) [Go](#)

[Download this directory in tarball or zip archive](#)



Documentation — ILC Software Portal - Mozilla Firefox

http://www.flc.desy.de/ilcsoft/Projects/MarlinReco/documentation/

Documentation

This document serves as a comprehensive manual to help users getting started with the Marlin based reconstruction software MarlinReco for the international linear collider (ILC). After a short review of the underlying packages (LCIO, Gear, Marlin, MarlinUtil) and a summary of required libraries, an introduction to the features of MarlinReco is given. Furthermore a detailed description helps to install MarlinReco together with all underlying packages. It is also explained how to invoke MarlinReco and influence its behaviour using the steering file. Finally you learn how to write own processors so that many scientist from the HEP community can contribute to this Project.

MarlinReco

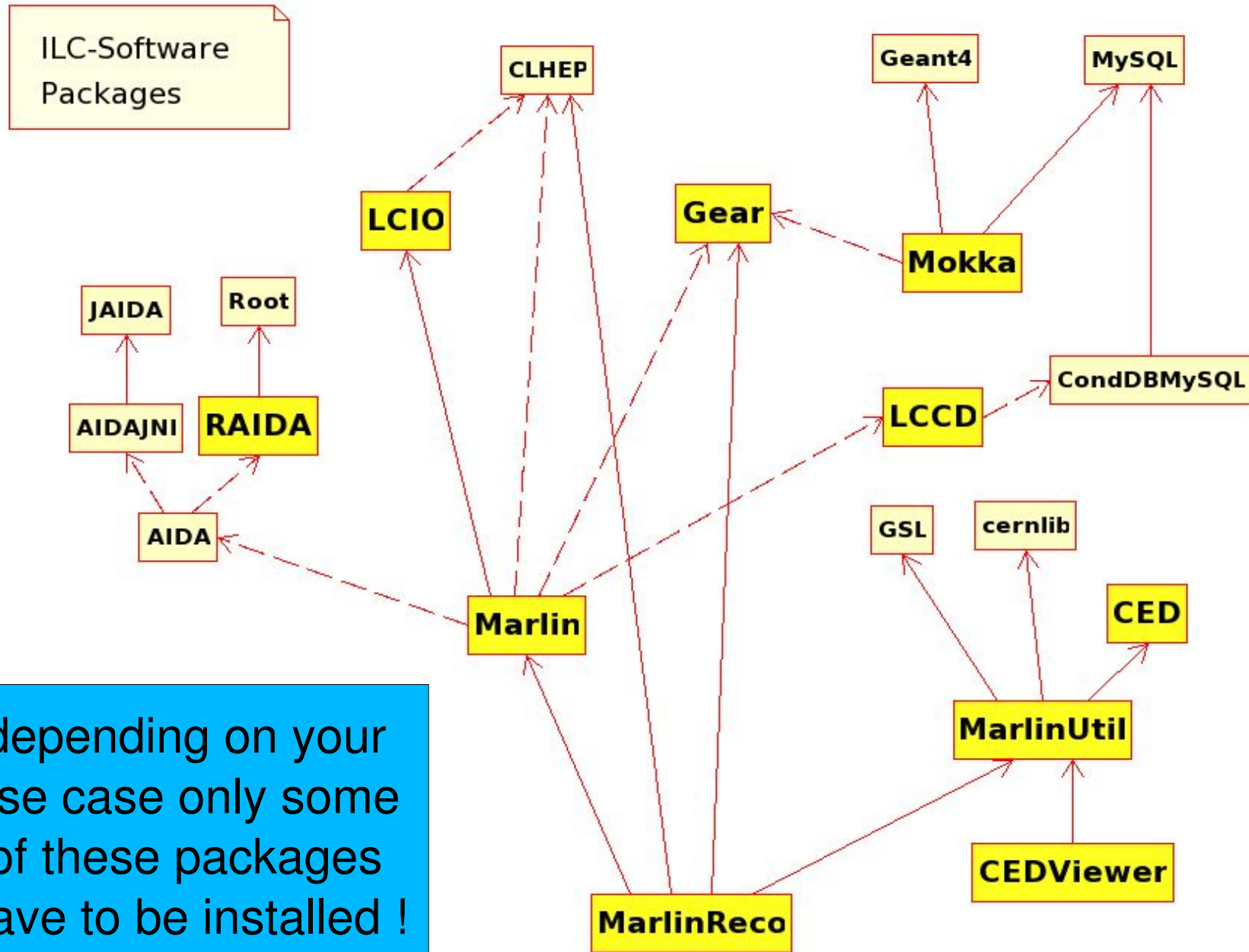
A Marlin based Reconstruction Package for the ILC

T. Krämer et al., DESY

Contents

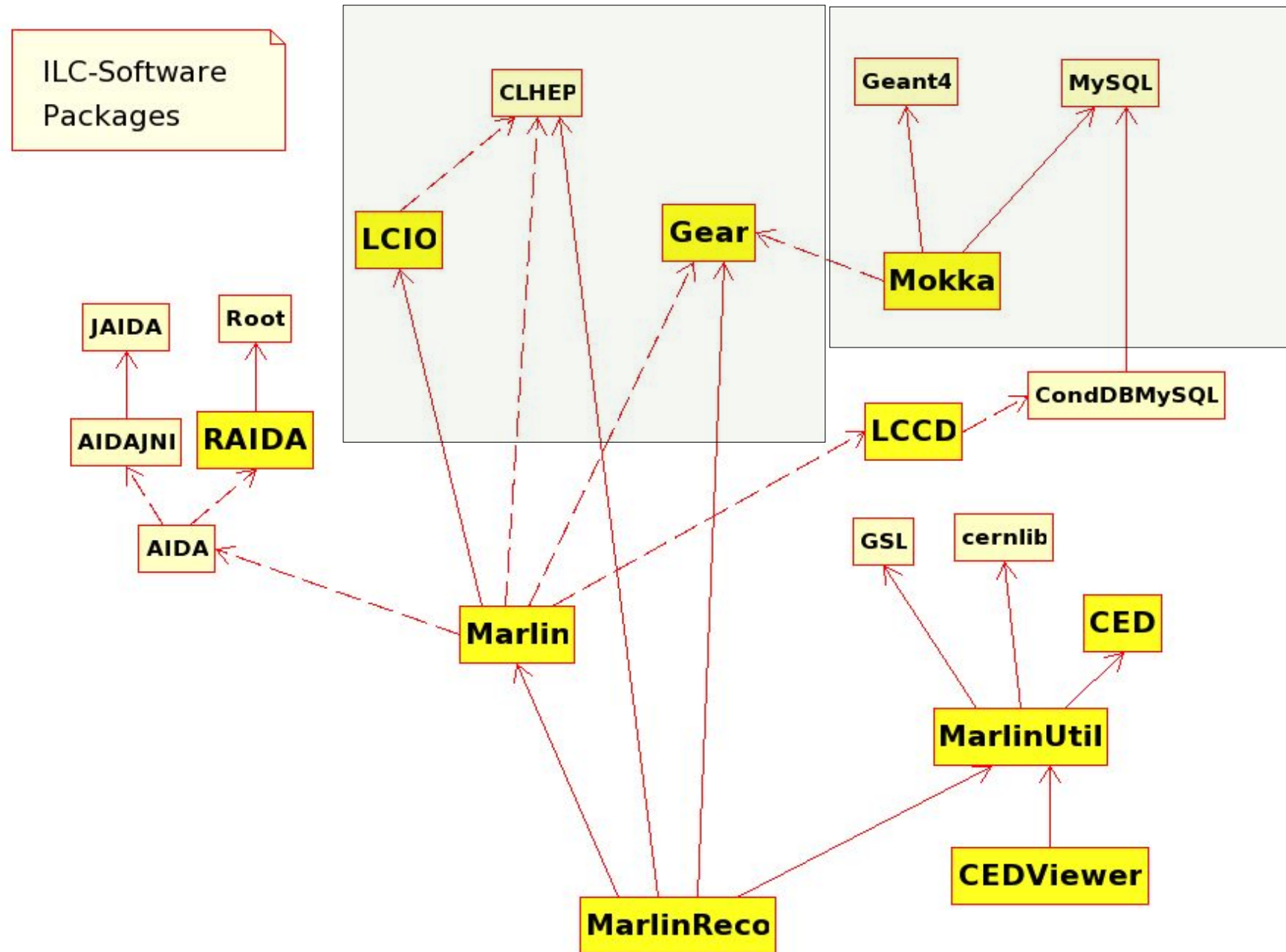
<http://ilcsoft.desy.de>
[aka: <http://www-flc.desy.de/ilcsoft>]

software package dependencies



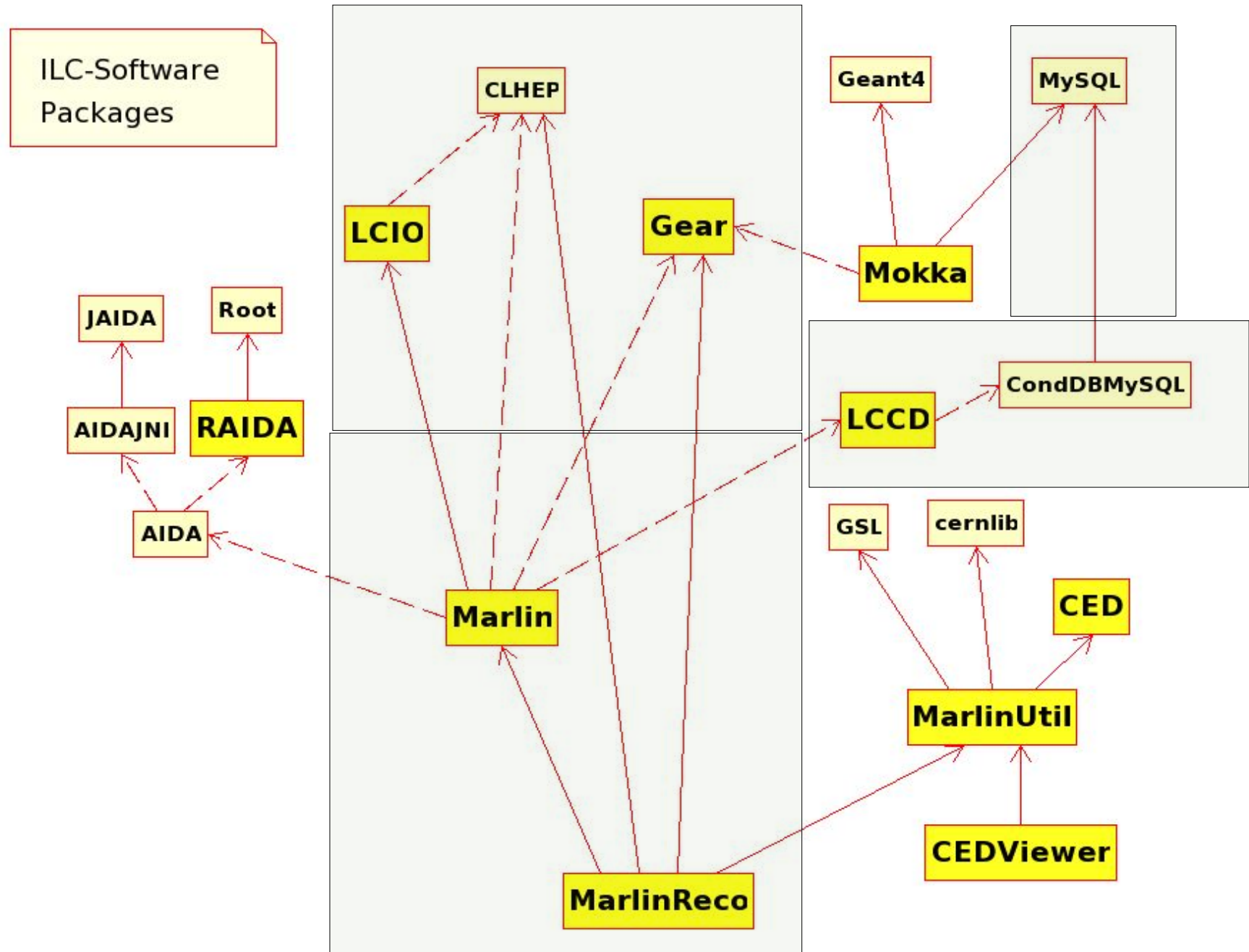
depending on your use case only some of these packages have to be installed !

example: ILC full simulation

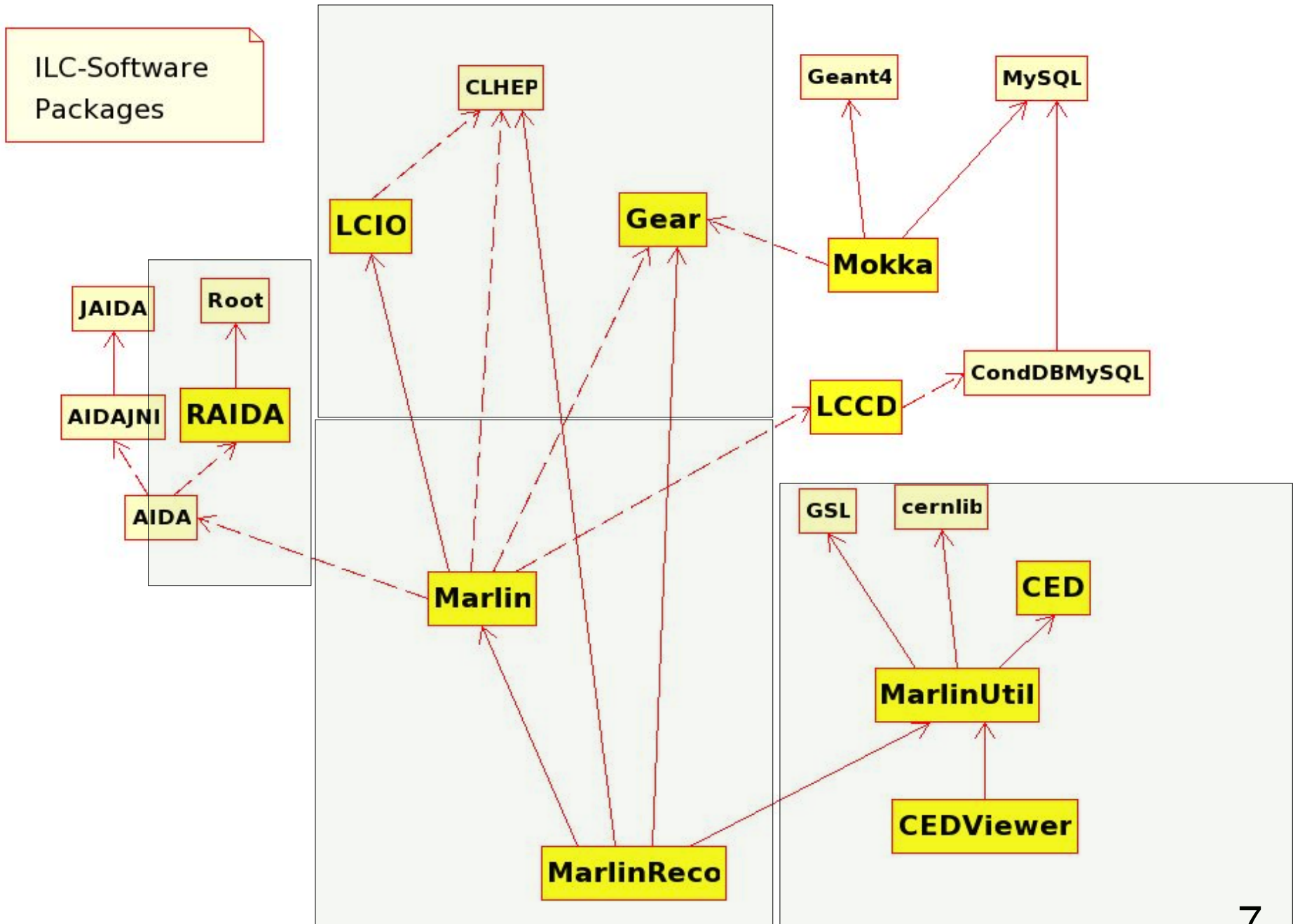


example: Calice/testbeam

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example:ILC full reconstruction



starting from scratch

- figure out which tools you need (previous slides)
- find out which tools are already installed, e.g. CLHEP, cernlib, root, JAIDA, gsl, geant4
 - for those non-ILC tools that you need to install use [google](#) to find web page with documentation, downloads, etc.
 - follow instructions and be patient ...
- for ILC tool: go to <http://ilcsoft.desy.de>
 - find out what you need and read the documentation and follow the instructions
 - in case of problems contact your peers or the experts through the forum: <http://forum.linearcollider.org>

example: MarlinReco

- if you want to work on reconstruction algorithms with MarlinReco there is a very detailed and comprehensive manual that tells you all you need at <http://ilcsoft.desy.de>
- if you are new to ILC software you should read this right after the LCIO manual and then start to install the software, run it and contribute !



Live demo of software portal, forum et al...

final remarks

- in general ILC software is documented
- you should read the documentation and then try to install and run it
- in case of any problems/questions/comments that you might have:
 - use the forum to post it: <http://forum.linearcollider.org>
 - there you
 - are likely to get an answer
 - will help your colleague before they run into the same problem
 - give the authors a chance to fix it